

REPORT OUTLINE SHEET

CHEMICAL: Aquacar 542

TEST MATERIAL: Glutaraldehyde	42.5%
Alkyl dimethyl benzyl ammonium chloride ...	7.5%
Total	50.0%

STUDY TYPE: Eight-Day Dietary LC₅₀Test Species: Mallard Duck (Anas platyrhynchos)

STUDY I.D.:

Beavers, J.B. and Jaber, M. (1984) Acute Dietary LC₅₀ Test For Waterfowl and Upland Game Birds; Project No. 142-130; Prepared by Wildlife International, Ltd For Union Carbide Corporation, P.O. Box 670, Bound Brook, New Jersey 08805; MRID No. 421106-00.

REVIEW BY:

Name: Curtis E. Laird
Title: Fishery Biologist
Organization: EEB/EFED

Signature: *Curtis E. Laird*
Date: 1-31-92

APPROVED BY:

Name: Allen Vaughan
Title: Supervisory Biologist
Organization: EEB/EFED

Signature: *Allen W. Vaughan*
Date: 3-9-92

CONCLUSIONS:

This study indicates Aquacar 542 is practically nontoxic to mallard duck with an LC₅₀ > 5620 ppm. This study does fulfill the guideline requirement in support of registartion for an avian dietary LC₅₀ study using a formulated product.

RECOMMENDATIONS: N/A

BACKGROUND:

This study was submitted for EEB review.

DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: N/A



MATERIALS AND METHODS:

A. Test animals:

Test animals were 10-day old mallard duckling from Whistling Wings, Hanover, Illinois. Birds appeared to be in good health at test initiation.

b. Dosage -

Ten birds per dose level; 5 dosage levels plus control (corn oil, 562, 1000, 1780, 3160 and 5620 ppm).

c. Study Design -

Birds were tested in 72 x 90 x 24 cm Beacon battery broodies; temperature was 82 ± 3 °F; photoperiod was 17L/7D.

d. Statistical Analysis -

Visual inspection

REPORTED RESULTS:

The study author found the eight-day dietary LC_{50} to be > 5620 ppm. The NOEC was > 5620 ppm.

STUDY AUTHOR'S CONCLUSIONS/QA MEASURES:

The Quality Assurance Officer examined this study for conformance with Good Laboratory Practices as published by the U.S. EPA, Office of Pesticide Programs (Federal Register, Volume 48, No. 230, November 29, 1983, Pages 53946-53969)."

REVIEWER'S DISCUSSION AND INTERPRETATION OF STUDY RESULTS:

A. Test Procedure:

The test procedure complied with the recommended EPA protocol of October 1982.

B. Statistical Analysis:

No statistics were performed due to lack of mortality.

C. Discussion/Result:

Agucar 542 (X42) is practically nontoxic to mallard duck with an $LC_{50} > 5620$ ppm. The NOEC was > 5620 ppm.

D. Adequacy of Study:

1. Category: Core

2. Rationale: N/A

3. Repairability: N/A

COMPLETION OF ONE LINER FOR STUDY: Yes

CBI APPENDIX:

42110600

D172500
DPBARCODE (RECORD)
043901, 069105
SHAUGHNESSY NO

REVIEW NO.

EEB REVIEW

DATE IN: 12-26-91 OUT: _____

CASE # : 113860 REREG CASE #: _____
SUBMISSION # : S408673 LIST A, B, C, D
ID # : 010352-00033

DATE OF SUBMISSION 11-29-91

DATE RECEIVED BY EFED 12-19-91

SRRD/RD REQUESTED COMPLETION DATE 02-02-92

EEB ESTIMATED COMPLETION DATE 02-02-92

SRRD/RD **ACTION** CODE/TYPE OF REVIEW 305 - Lbl Rev Amnd

MRID #(S) 421106-01

DP TYPE 001 - Submission Related Data Package

PRODUCT MANAGER, NO. J. Lee (31)

PRODUCT NAME(S) AQUCAR 542 Water Treatment Microbiocide

TYPE PRODUCT F R I N H D Microbiocide

COMPANY NAME Union Carbide

SUBMISSION PURPOSE Review data: mallard dietary with

INCLUDE USE(S) Formulation X42

COMMON CHEMICAL NAME Glutaraldehyde plus alkyl dimethyl
benzyl ammonium chloride

DP BARCODE: D172500

CASE: 113860
SUBMISSION: S408673

DATA PACKAGE RECORD
BEAN SHEET

DATE: 12/19/91
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION ACTION: 305 TECH-LBL REV AMND DATA RE
CHEMICALS: 043901 Glutaraldehyde 42.5000%
069105 Alkyl* dimethyl benzyl ammonium chloride *(50% C14 07.5000%

ID#: 010352-00033 AQUAR 542 WATER TREATMENT MICROBIOCID
COMPANY: 010352 UNION CARBIDE CHEMICALS AND PLASTICS COMPANY, INC.
PRODUCT MANAGER: 31 JOHN LEE 703-305-5675 ROOM: CM2 258
PM TEAM REVIEWER: KAREN LEAVY 703-305-6966 ROOM: CM2 256
RECEIVED DATE: 11/29/91 DUE OUT DATE: 02/27/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 172500 EXPEDITE: N DATE SENT: 12/19/91 DATE RET.: / /
CHEMICAL: 043901 Glutaraldehyde
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 02/02/92 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	12/19/91	/ /
BRAN: EEB	12/26/91	/ /
SECT:	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

PLEASE REVIEW DIETARY LC50 STUDY IN MALLARD WITH FORMULATION X42

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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